

P. A. CASSIDY.

MACHINES FOR CUTTING LEATHER, &c.

No. 179,645.

Patented July 11, 1876.

Fig. 1.

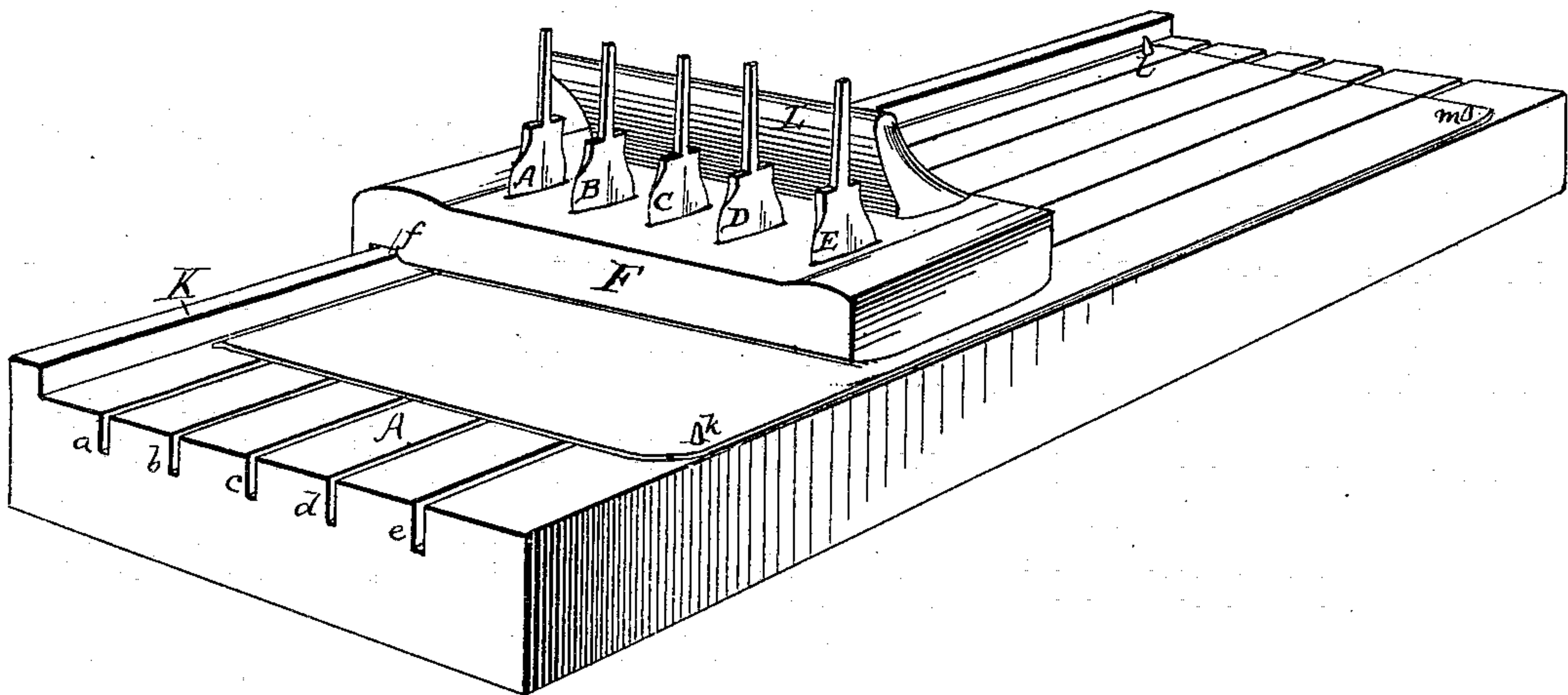


Fig. 2.

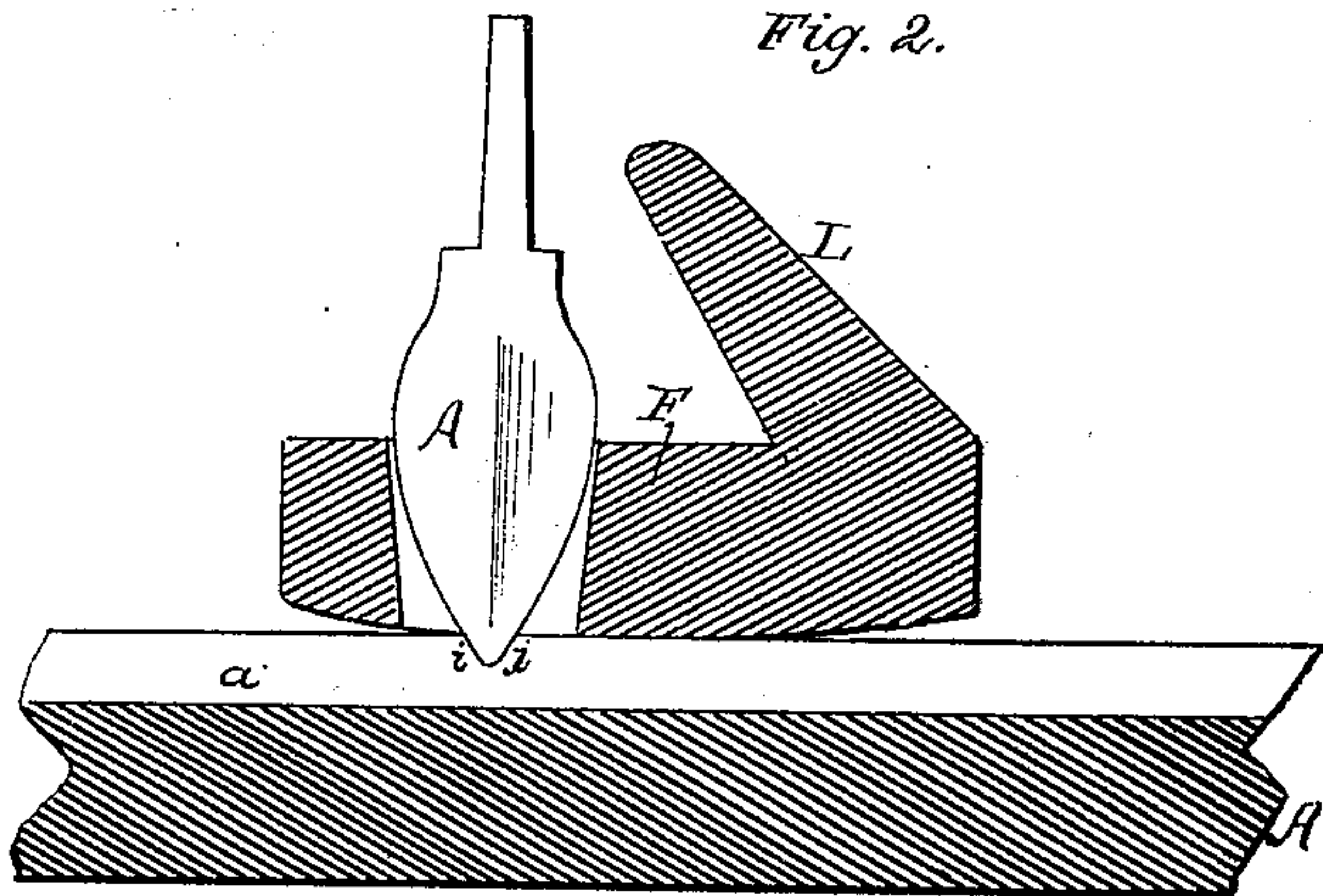
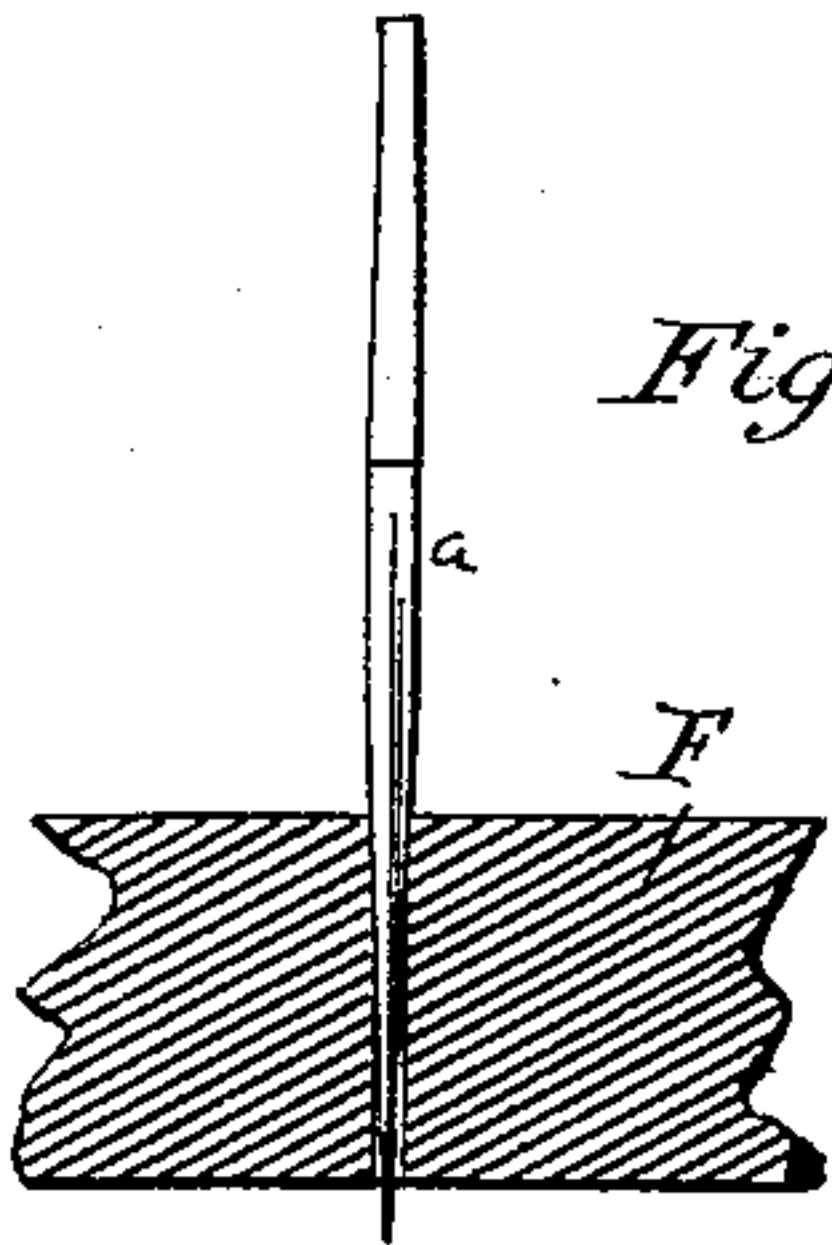


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

PETER A. CASSIDY, OF WASHINGTON, DISTRICT OF COLUMBIA.

IMPROVEMENT IN MACHINES FOR CUTTING LEATHER, &c.

Specification forming part of Letters Patent No. **179,645**, dated July 11, 1876; application filed May 9, 1876.

To all whom it may concern:

Be it known that I, PETER A. CASSIDY, of Washington, in the District of Columbia, have invented a new and useful Machine for Cutting Vellum-Cloth, Leather, Paper, or other similar articles into strips, which invention is fully set forth in the following specification, reference being had to the accompanying drawings.

The object of my invention is to rapidly and cheaply cut into strips vellum-cloth for mending muster-rolls, documents, abstracts, leather for book-binding, harness-making, &c., and paper, or any similar article.

To accomplish this I provide a cutter-holder or gage furnished with a number of knives, operating upon and in combination with a bed upon which the article to be cut into strips is fastened, the bed having a number of parallel grooves to correspond with the cutters, and upon one side a guide-piece, upon which fits a groove in the cutter-holder, which so operates as to cause the cutters to move in a straight line, and to constantly retain their cutting-edges in the grooves.

In the accompanying drawing, Figure 1 is a perspective view of my machine, showing a piece of vellum-cloth or other article to be cut fastened on the bed. Fig. 2 is a section of the cutter-holder, showing the method of fastening the cutters.

The bed-piece A may be of any convenient length, having in its upper surface a number of parallel grooves, *a b c d e*, made at such distances apart as it is desired that the width of the strips to be cut should be. Upon one side of the bed-piece is a guide strip, K, over which fits a corresponding groove, *f*, at one side of the cutter-holder F. The cutter-holder F has secured therein the cutters A B C D E, which are placed at such a distance apart as to correspond with the grooves in which they move. The cutters are caused to move in a straight line, and their cutting-edges to remain constantly in the grooves, by the guide-strip K and the guide-groove *f* in the cutter-holder. The cutter-holder is also provided with a han-

dle, L, by which it may be grasped by the hand, and moved over the bed in the operation of cutting.

The cutters are made with two cutting-edges, *i j*, Fig. 2, so that they will cut, when moved over the bed, in either direction, and are also wedge-shaped, and may thus be readily fastened into the holder by insertion into the tapering sockets, as shown in Fig. 3.

The bed-piece is furnished with pins *k l m*, (shown in Fig. 1,) to hold the material and keep the edges even and together when more than one thickness of cloth or other material is being cut.

The machine may have any convenient number of grooves and corresponding cutters, and they can be placed at any distance apart to correspond with the width of the strips to be cut.

In case the material to be cut is thin, like vellum-cloth or paper, a number of thicknesses may be placed on the bed and cut at one time.

I claim as my invention—

1. In a machine for cutting vellum-cloth, leather, or other similar materials, the combination of a cutter-holder, F, carrying a number of knives, A B C D E, and having a guide-groove, *f*, with a bed, A, having grooves *a b c d e*, corresponding with the cutters, a guide-strip, K, and holding-pins *k l m*, all to operate in the manner and for the purpose described.

2. The cutters A B C D E, having two cutting-edges, and wedge-shaped in vertical cross-section, in combination with the cutter-holder F, having tapering sockets, into which the wedge-shaped cutters fit, and a guide-groove, *f*, operating upon a bed, A, having grooves *a b c d e*, corresponding with cutters, guide-strip K, and holding-pins *k l m*, all to operate in the manner and for the purpose described.

PETER A. CASSIDY.

Witnesses:

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